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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/816,123	04/01/2004	Dow Jacobson	JACO0001	9619
27939	7590	03/21/2008		
PHILIP H. BURRUS, IV 460 Grant Street Atlanta, GA 30312			EXAMINER	
			KE, PENG	
			ART UNIT	PAPER NUMBER
			2174	
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			03/21/2008	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

10/816,123

**Applicant(s)**

JACOBSON, DOV

**Examiner**

Peng Ke

**Art Unit**

2174

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 07 December 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☐ Information Disclosure Statement(s) (PTO/SF/US)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/7/07 has been entered.

Claims 1-15 are pending in this application. Claims 1 and 7 are independent claims. In the Amendment, filed on 12/7/07, claims 1 and 7 were amended.

### ***Claim Rejections – 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7, 10, 13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki JP 7303209 in view of Usui JP 2002222051.

Claims 1-7, 10, 13, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Sasaki JP 7303209.

As per claim 1, Sasaki teaches a method of human authentication in a system comprising a computer and a mouse, said method comprising:

A: detecting mouse micromotion data (paragraph 0024) of a user by gathering a plurality of samples per mouse click; (paragraph 008; paragraph 0019; the desirable to repeat several times of operation is gathering a plurality of samples per mouse click)

B: obtaining at least one metric of mouse movement information characterizing the user from the mouse micromotion data; (paragraph 008)

C: comparing the metric against a database; (paragraph 008)

D: authenticating the user; (paragraph 008)

However, Sasaki fail to teach tracking mouse micro-motion, wherein the mouse micromotion comprises any movement, track, or trace of the mouse as the user manipulates the mouse o move a corresponding cursor form one point to another point.

Usui teaches mouse micro-motion, wherein the mouse micromotion comprises any movement, track, or trace of the mouse as the user manipulates the mouse o move a corresponding cursor form one point to another point. (see Usui's Text of Basic Abstract)

It would have been obvious to an artisan at the time of the invention to include Usui's teaching with method Sassaki in order to provide users with the ability to monitor their micromovement.

As per claim 2, Sasaki and Usui teach the method of claim 1. Sasaki further teaches wherein the method provides information regarding the user's class identity. (paragraph 0042)

As per claim3, Sasaki and Usui teach the method of claim 1. Sasaki further teaches wherein the step of detecting the mouse micromotion data (paragraph 0024) of the user is

executed without the user's awareness. (paragraph 0013; To detect the habits of the individual is to detect the individual's actions without his/her awareness;)

As per claim 4, Sasaki and Usui teach the method of claim 1. Sasaki further teaches the database comprises an aggregated representation of previously detected mouse micromotional data. (paragraph 0021)

As per claim 5, Sasaki and Usui teach the method of claim 1. Sasaki further teaches the step of obtaining the at least one metric of mouse movement information comprises obtaining a plurality of metrics of mouse movement information (paragraph 0024) and the comparison between the metrics and the database uses at least one eigenvector derived from the metrics. (paragraph 0013, 0022, 0040-43 and 0045)

As per claim 6, Sasaki and Usui teach the method of claim 1. Sasaki further teaches the mouse micromotion data of the user are in response to a display on the computer's screen. (paragraph 0013, figure 2)

As per claim 7, Sasaki teaches an information processing system for identifying its users, the system comprising:

An arrangement of sensors for detecting user mouse micromotion data (paragraph 0024) by gathering a plurality of samples per mouse click; (paragraph 008; paragraph 0019; the desirable to repeat several times of operation is gathering a plurality of samples per mouse click)

A memory unit for storing the detected user mouse micromotion data; (paragraph 0013)

A computational element for obtaining at least one metric from the user's mouse from the mouse micromotion data (paragraph 0024) and manipulating the metric; (paragraph 0013 and 0022)  
and

A database. (paragraph 0021)

Usui teaches mouse micro-motion, wherein the mouse micromotion comprises any movement, track, or trace of the mouse as the user manipulates the mouse o move a corresponding cursor form one point to another point. (see Usui's Text of Basic Abstract)

It would have been obvious to an artisan at the time of the invention to include Usui's teaching with method Sasaki in order to provide users with the ability to monitor their micromovement.

As per claim 10, Sasaki and Usui teaches the system of claim 7. Sasaki further teaches wherein said information processing system is distributed over a plurality of network devices. (paragraph 0012)

As per claim 13, Sasaki and Usui teaches the system of claim 7, Sasaki further teaches wherein the system is used for network access. (paragraph 0001)

As per claim 15, Sasaki and Usui teaches the system of claim 7, Sasaki further teaches said information processing system is a single computer. (paragraph 0001)

Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki JP 7303209 in view of Usui JP 2002222051 in view of Federova US Publication 2004/0172564 A1.

As per claim 8, Sasaki and Usui teaches the method of claim 7, Sasaki fails to teach a target pattern is used to elicit information know only to an authorized user.

Federova teaches a target pattern is used to elicit information know only to an authorized user. (paragraph 0026)

It would have been obvious to an artisan at the time of the invention to include Federova's teaching with method of Sasaki in order to provide users with an authorization method that can be easily memorized.

As per claim 9, Sasaki, Usui, and Federova teach the method of claim 8. Federova further teaches a target pattern that changes from a session to session is used to elicit the user's mouse movements. (paragraph 0026)

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki Japanese Patent JP7303209 in view of Usui JP 2002222051 in view of Allen, JR. US Publication 2003/0042298.

As per claim 12, Sasaki and Usui teach the method of claim 7. However Sasaki fails to teach the system is used for online voting.

Allen teaches a password system for online voting. (paragraph 006-0012)

It would have been obvious to an artisan at the time of the invention to include Allen's teaching with method of Sasaki and Usui in order to create administrative system for HTML-based ballot creation and election system.

Claims 11 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki Japanese Patent JP7303209 in view of Usui JP 2002222051 in view of Gallagher US Patent 7,031,939.

As per claim 11, Sasaki and Usui teach the method of claim 7. However Sasaki fails to teach the system is used for commercial transactions.

Gallagher teaches a password system for commercial transactions. (column 1, lines 40-column 4, lines 58)

It would have been obvious to an artisan at the time of the invention to include Gallagher's teaching with method of Sasaki and Usui in order to provide a system for securing online financial transaction between individual or between individuals and merchants without the need for sending and cashing checks or transmitting confidential information.

As per claim 11, Sasaki and Usui teach the method of claim 7. However Sasaki fails to teach the system is used for authorize the release of sensitive personal records.

Gallagher teaches a password system for authorize the release of sensitive personal records. (column 1, lines 40-column 4, lines 58)

It would have been obvious to an artisan at the time of the invention to include Gallagher's teaching with method of Sasaki in order to provide a system for securing online financial transaction between individual or between individuals and merchants without the need for sending and cashing checks or transmitting confidential information.

### ***Response To Argument***

Applicant's arguments with respect to claims 1-15 have been considered but are deemed to be moot in view of the new grounds of rejection.



***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peng Ke whose telephone number is (571)272-4062. The examiner can normally be reached on M-Th and Alternate Fridays 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (571) 272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Peng Ke  
/Peng Ke/  
Primary Examiner, Art Unit 2174